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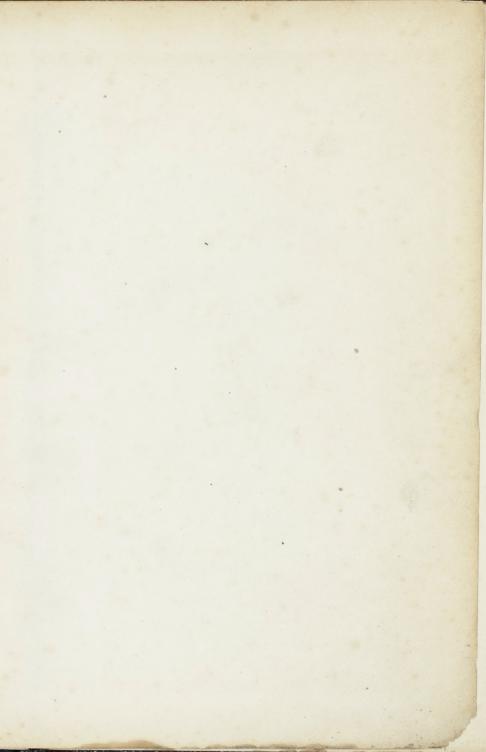


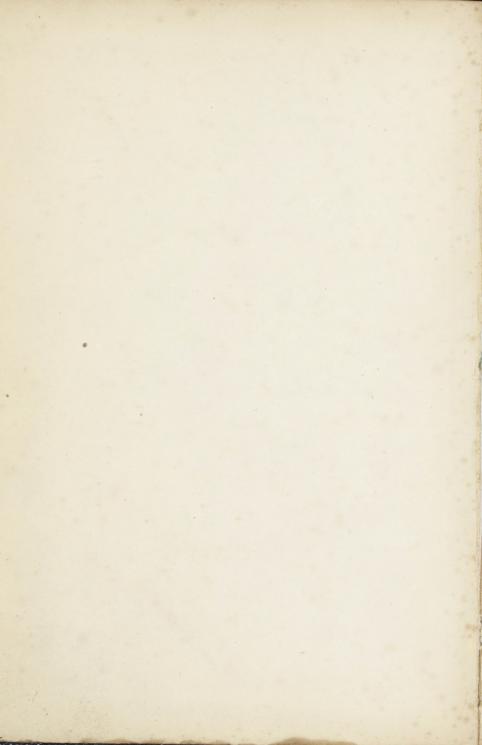
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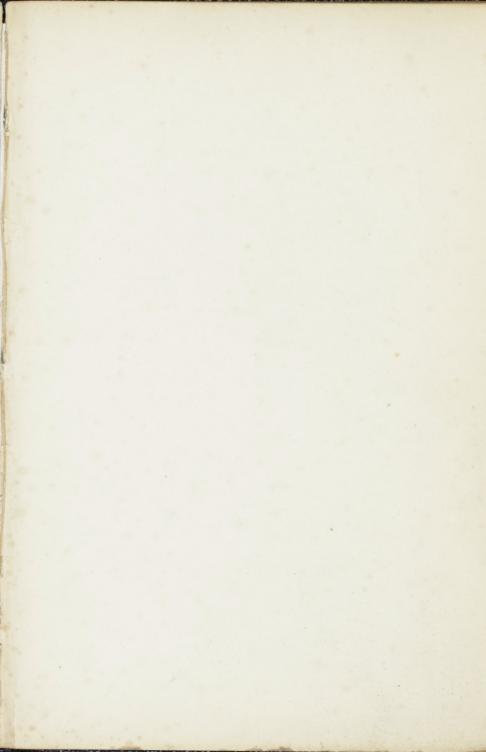
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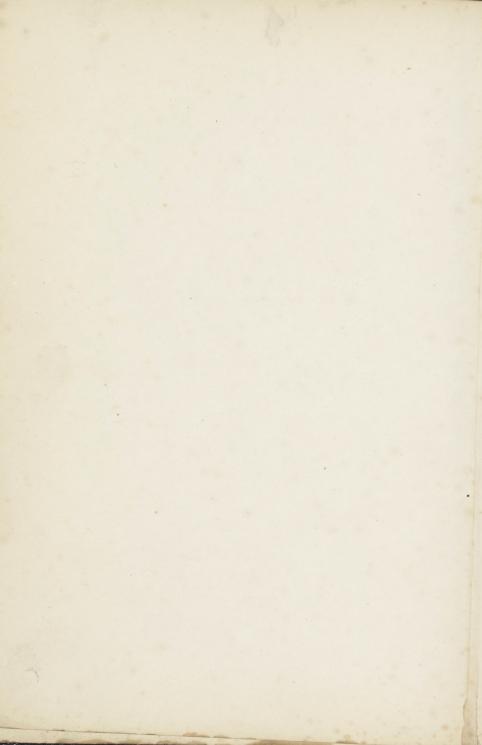
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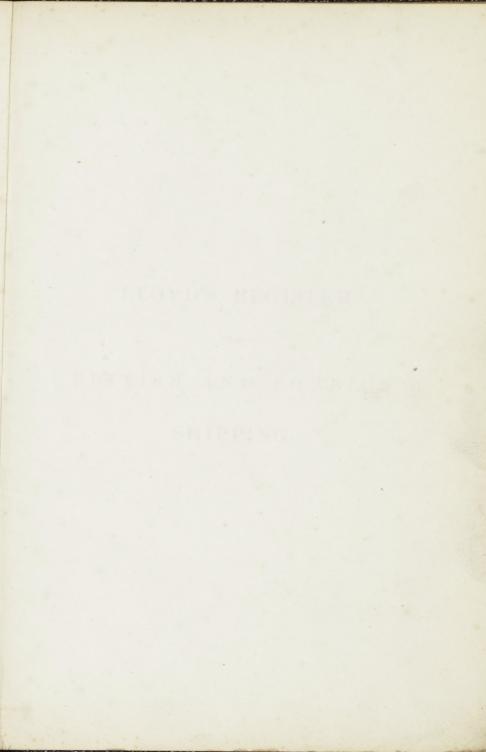












# LLOYD'S REGISTER

OF

BRITISH AND FOREIGN
SHIPPING.

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BRITISH AND FORMIGN

SHIPPING

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# LLOYD'S REGISTER

OF

# BRITISH AND FOREIGN SHIPPING.

From 1st JULY, 1849, to the 30th JUNE, 1850.

ESTABLISHED 1834.



## LONDON:

PRINTED BY J. & H. COX, BROTHERS, (LATE COX & SONS,)
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1849.

Selection of the contract of the

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1849-1850.

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## LLOYD'S REGISTER

OF

## BRITISH AND FOREIGN SHIPPING.

## RULES AND REGULATIONS.

- 1. The operations of the Societies of the two Register Books of Shipping printed for the use of Merchants, Ship-Owners, and Underwriters, having ceased in the year 1834, this Society was established for the important purpose of obtaining a faithful and accurate Classification of the Mercantile Marine of the United Kingdom, and of the Foreign Vessels trading thereto, and for the government of which the following Rules and Regulations have been from time to time adopted.
  - 2. A Register Book to be printed annually for the use of Subscribers.
- 3. Each person subscribing the sum of Three Guineas per annum (or such other sum as the General Committee may fix), to be considered a Member of the Society, and entitled for his own use to one copy of the Register Book.
- 4. The subscription of Public Companies, or Public Establishments (not being engaged in Marine Insurance), to be Ten Guineas per Annum.
- 5. The subscription of Marine Insurance Companies to be regulated by the Committee on special application, in each case, but not to be less than Ten Guineas per Annum.
  - 6. The Register Book to be periodically posted throughout the year.
- 7. For the convenience of Subscribers not resident in London, a Supplement, containing the additions to, and corrections made in, the Register Book, to be printed fortnightly in such convenient form, as to admit of its transmission by Post, so that such parties may be furnished, from time to time, with the latest and most complete information.
- 8. The superintendence of the affairs of the Society to be under the direction of a Committee in London, of twenty-four members, consisting

of an equal proportion of Merchants, Ship-Owners, and Underwriters. The Chairman for managing the affairs of Lloyd's, and the Chairman of the General Ship-Owners' Society, and also the Chairman and Deputy Chairman of the Liverpool Committee, and the Chairman of the Rotation Committees for the time being, to be, ex officio, Members of the Committee.

- 9. Six of the members, namely, two of each of the constituent parts of the Committee, to go out annually by rotation, but to be eligible to be reelected.
- 10. The vacancies so arising to be filled up by the election of two Underwriters and one Merchant by the Committee for managing the affairs of Lloyd's, and two Ship-Owners and one Merchant by the Committee of the General Ship-Owners' Society.
- 11. The Committee to appoint from their own body, annually, a Chairman and Deputy Chairman, and also a Chairman for a Sub-Committee of Classification.
- 12. The Committee to appoint a Sub-Committee of Classification, to be so regulated that each Member of the General Committee may, in rotation, take his turn of duty therein throughout the year.
- 13. The Secretary, Clerks, and Servants of the Society, and the Surveyors for London, Liverpool, and the other Outports, to be appointed by, and be under the direction of the General Committee.
- 14. Special meetings to be convened by order of the Chairman, or Deputy Chairman, or on the requisition of any three members.
  - 15. All elections and appointments to be made by ballot.
- 16. No member of the Committee to be permitted to be present on the decision of the classification of any ship of which he is the owner, or wherein he is directly or indirectly interested.
- 17. The Committee to be empowered to make such By-laws for their own government and proceedings as they may deem requisite, not being inconsistent with the original Rules and Regulations under which the Society was established; but no new Rule or By-law to be introduced, nor any Rule or By-law altered, without special notice being given for that purpose at the meeting of the Committee next preceding that at which such Motion is intended to be made; such notice to be inserted in the summons convening the meeting. No new Rule, or alteration in any existing Rule, materially affecting the classification of ships, to take effect until the expiration of six months from the time it shall have been determined upon.
- 18. All reports of survey to be made in writing by the Surveyors according to the forms prescribed, and submitted for the consideration of the

General Committee, or of the Sub-Committee of Classification; but the classing assigned by the latter to be subject to confirmation by the General Committee.

19. The reports of the Surveyors, and all documents and proceedings relating to the classification of ships, to be carefully preserved, and parties proving themselves to be interested therein, to have access to the same

under the directions of the Chairman or Deputy Chairman.

20. Foreign ships, and ships built in the British possessions abroad (See also Section 51), to be surveyed on their arrival at a port in the United Kingdom; but a due regard is to be had to the circumstance of their having been exempted from the supervision while building to which all British ships are subjected, and the class to be assigned to them is to be regulated according to their intrinsic quality, and from the best information the Committee can obtain.

21. In every case in which the class assigned to a ship may be proposed to be reduced, notice is to be given in writing to the Owner, master, or Agent, with an intimation that if the reduction be objected to, the Committee will be ready to direct a special survey, on the Owner, master, or Agent agreeing to pay the expenses attending the same, provided on the said survey there shall appear sufficient ground for the proposed reduction.

22. When the Surveyors consider repairs to be requisite, they are respectfully to communicate the same in writing to the Owner, master, or Agent, and if such repairs be not entered upon within a reasonable time, a corresponding report is to be made to the Committee for their decision thereon.

23. Parties considering the repairs suggested by the Surveyor to be unnecessary or unreasonable, may appeal to the Committee, who will direct a special survey to be held; but should the opinion of the Surveyor be confirmed by the Committee, then the expense of such special survey is to be paid by the party appealing.

24. The Surveyors to the Society not to be permitted (without the especial sanction of the Committee), to receive any fee, gratuity, or reward whatsoever for their own use or benefit, for any service performed by them in their capacity of Surveyors to this Society, on pain of immediate dismissal.

25. The Surveyors will be directed to attend on special surveys of ships under damage, or repairs for Restoration, when required by merchants, Ship-Owners, or Underwriters; the charge for which is to be regulated according to the nature and extent of the service performed. In all cases, the application for the assistance of the Surveyors must be made in writing addressed to the Secretary.

#### FUNDS.

- 26. The Funds to be under the authority and control of the Committee, and a statement of the Receipts and Expenditure to be annually printed for the information of the subscribers.
- 27. The following Fees to be charged to the Owners of ships prior to their vessels being classed and registered in the book.

T.

For	Entering and Classing	Ships, and for	Entering and	Classing Ships
	surveyed for Continu	uation, or repe	aired for Rest	oration.
47	1 011			

For each Ship	•••		under	100 Tons	 £1	0	0
Ditto	of	100 To	ons and under	200	 2	0	0
Ditto		200	_	300	 3	0	0
Ditto		300	_	400	 . 4	0	0
Ditto	.,,	400 an	d upwards	•••	 5	0	0

II.

#### For Registering Repairs; or change of Owners.

For each Ship	 	under	150 Tons	•••	£0	10	0
Ditto	 of 150	Tons and under	300	***	1	0	0
Ditto	 300	_	500		2	0	0
Ditto	 500	and upwards	•••	•••	3	0	0

#### III.

# For Re-classing Ships (except when repaired) the Characters of which have been expunged.

For each Ship	•••	under	200 Tons	£0	10	0
Ditto			200 and above	1	0	0

#### Special Surveys.

- 28. For Special Surveys, and where the Surveyors to the society are required by the Owners to superintend the building of ships, or repairs for Restoration, or otherwise, a charge will be made according to the nature and extent of the service performed.
- 29. Certificates of Classification, of the Form No. 6, signed by the Chairman of the General Committee, or by the Chairman of the Sub-Committee of Classification, and countersigned by the Secretary, will be granted on application; the charge for which is to be as follows:—

For Ships under 200 Tons ... ... 5s. each.

Ditto of 200 — and above ... 10s. each.

30. Rules, each copy ... 2s. 6d.

#### RULES FOR CLASSIFICATION.

31. The Rules and Regulations for the classification of ships, which were originally framed after much labour and deliberation, aided by the valuable practical knowledge of the Committee of the General Ship-Owners' Society, having been revised and considerably modified, the following have been determined upon as well calculated to meet the fair claims of all parties interested in their application.

32. The characters to be assigned to ships to be, as nearly as possible, a correct indication of their real and intrinsic qualities, and to be in all cases fixed (not by the Surveyors, but) by the Committee, after due consideration of the Reports of the Surveyors and such other documents as may be submitted to them.

#### FIRST CLASS SHIPS.

First Description of the First Class,

33. Will comprise all ships which have not passed a prescribed age,\* provided they are kept in a state of complete repair and efficiency: and they will be designated by the letter A.

34. The period to be assigned for their continuing on this Class to be determined with reference to the original construction and quality of the vessel, the materials employed, and the mode of building; and their continuance for the time so assigned to depend upon its being shewn by occasional surveys (annually if practicable) that their efficiency is duly maintained. The characters of ships classed A for a term of years, will in future be struck out of the Register, unless such ships shall be brought under survey within a period in no case exceeding one-half of that originally assigned for their remaining in that class. After the expiration of the periods prescribed, ships will be permitted to remain on the List of the First Description of the First Class, or be restored thereto, for a further limited period, subject to the conditions hereinafter shewn in Sections 54, 55, and 57.

35. New ships are to be surveyed while building, by the Surveyors to this Society, in the following three stages of their progress, or they will be liable to lose one year of the period to which they might otherwise be entitled. (See Section 53.)

First. - When the frame is completed.

Second.—When the beams are put in, but before the decks are laid, and with at least two strakes of the plank of the ceiling between the lower deck and the bilge unwrought, to admit of an examination of the inner surface of the plank at the bottom.

Third.—When completed, and, if possible, before the plank be painted or payed.

\* See the Tables of Timbering, &c. Nos. 1, 2, and 3.

36. A full statement, agreeably to Form No. 4, of the dimensions, scantlings, &c. of all new ships, verified by the builder, is to be transmitted by the Surveyor, and to be kept as a record in the office of the Society.

#### RULES TO BE OBSERVED IN BUILDING SHIPS.

#### TIMBERING.

37. The whole of the timber to be of good quality, of the descriptions hereinafter shewn in a Tabular Form, No. 1, as applicable to the several terms of years for which ships so constructed may respectively be appointed to remain on the List of the First Description of the First Class: the stem, stern post, beams, transoms, apron, knightheads, hawse timbers, and kelson of ships claiming to stand twelve years, to be entirely free from all defects; the frame to be well squared from the first foothook heads upwards and free from sap, and likewise below, unless the timber be proportionably larger than the scantling hereafter described; every alternate set of timbers to be framed and bolted together to the gunwale. The butts of the timbers to be close, and not to be less in thickness than one-third of the entire moulding at that place, and to be well chocked with a butt at each end of the chock. In all cases in which the heads and heels of the timbers shall be square, in vessels intended for the twelve years' grade, a dowel must be introduced into the ends of such timbers in order to connect them together.\*

#### I.—THE SCANTLINGS TO BE NOT LESS THAN AS FOLLOWS:

	Tons.	Tons.
For Ships	150	500
ROOM AND SPACE TO BE	20 in.	30 in.
Floors sided, if square, and free from sap, to be at the k	elson 8 in.	13 in.
First foothooks sided, if square, at floor heads	7 in.	11 in.
Second foothooks sided, if square, at the heads	6½ in.	10 in.
Third foothooks sided, and top timbers, if square	6 in.	9 in.
The frame to be moulded at kelson	8 in.	13 in.
The frame to be moulded at floor heads	7 in.	11 in.
Top timbers to be moulded at their heads at the		
sheerstrake	4 in	5 in.

38. The intermediate dimensions for the scantling of timbers between the floor heads and the gunwale to be regulated in proportion to the distance from the two points. Should the room and space be increased, the siding of

<sup>\*</sup> In the construction of poops and top-gallant forecastles the timbers must be of the same materials as are required by the Rules (Table No. 1) for the "Top-timbers" of the frames of ships, according to the several terms of years appointed for such ships to remain on the first description of the first class. The outside planking of the forecastle and the sheerstrakes, planksheers, shelf or clamp, and spirketting of poops and top gallant forecastles must be likewise of the materials required by the Rules (Table No. 2) for the "Topsides" of the said ships. The remainder of the planking of the poops and top-gallant forecastles may be of fir of good quality. The beams of top-gallant forecastles and the mast beams, breast beam, and transom beam of poops, must be of the material required by the Rules (Table No. 1) for the beams of the said ships. The remainder of the beams and the water-ways of the poop may be of cedar, mahogany, Baltic fir, red pine, pitch pine, larch, hackmatac, tamarac, jumiper, cowdie, or rock elm, in ships from the 7 A grade and upwards, and of yellow pine or American white spruce in all below that grade.

#### Requisites for Restoration.

56. All the bolts in the range of each deck to be driven out, and the planks taken out; the upper deck waterways, and planksheers and spirketting, and the strake next the waterways on the lower deck in the midships to be taken out; the sheathing to be entirely stripped off the bottom; all the outside planking, from the copper upwards, or, if not coppered, then from the light water-mark upwards, to be scraped bright; a strake in the upper course of the bottom, between the wales and the light water-mark fore and aft, and a plank in the ceiling at the floor heads on each side, to be taken out, the limbers to be clear, and the hooks forward to be exposed; and in that state the ship to be submitted to a special survey and examination, at which the attention of the Surveyors appointed by this Society is to be particularly directed to the state of the decks, the remaining plank of the topsides, the wales, upper courses, and treenails, and other fastenings; also to the state of the frame, hawse timbers, and knightheads, kelson, floors, foothooks, ceiling, and breasthooks, the rudder in all its parts and hangings; and if, after such examination, the Owner should consent to take out all planks, timbers, beams, knees, waterways, fastenings, and other parts that may be found defective, or objected to, and replace them with materials of the same species, or of equal quality with those of which the ship was originally constructed, such ships to be entitled to restoration to the First Description of the First Class, for a period proportionate to their real condition and the extent of the repairs performed; or if timber of an inferior description, or second-hand English or African Oak or Teak be used, then for a period not exceeding that for which such materials would have entitled a new ship to stand A 1 according to the tables, subject in either case to the ship being at all times thereafter kept in a state of efficient repair.

#### SECOND RULE.

57. If, at any age of a vessel, an Owner be desirous to have his ship restored to the First Description of the First Class, such restoration (on his consenting to the special survey hereinafter described, to be held by two Surveyors, and performing the repairs thereby found requisite) will be granted for so long a period as may be deemed expedient by the Committee, not exceeding, in any case, the term of eight years.

#### Requisites for Restoration.

58. The whole of the outside plank of the vessel to be taken off as low as the second foothook heads, and the remainder of the planking, either outside or inside, together with all the decks, to be removed, so as to expose the

timbers of the frame entirely to view, and in that state the ship to be submitted to a special survey and examination by the Surveyors appointed by this Society; and if, after such examination, all timbers, beams, knees, kelsons, transoms, breasthooks, remaining plank, inside or outside, or other parts found to be defective, be replaced with materials of the same species, or of equal quality with those of which the ship was originally constructed, and all the treenails driven out and renewed, such ship may be restored to the First Description of the First Class. But if timber of an inferior description, or second-hand English or African Oak or Teak be used, then for a period not exceeding that for which such materials would have entitled a new ship to stand A I according to the tables, subject, in either case, to the ship being at all times thereafter kept in a state of efficient repair.

59. On the same principle of giving to ships which shall be actually proved to be superior of their class, and in excellent condition, every advantage that can be extended to them consistently with the maintenance of the general principles on which the Society was established, ships which have been restored to the Class A shall be entitled to an extension of the time, subject to the same conditions of survey and examination as are prescribed for ships proposed to be continued in the First Description of the First Class, at the expiration of the period first assigned to them; but in like manner, the term of such extended continuance shall be limited to a period not exceeding one-third of the number of years for which the ships may respectively have been restored, without any reference whatever to the period originally assigned to them.

#### FIRST CLASS SHIPS.

Second Description,

60. Will comprise all ships which having passed the prescribed age, but have not undergone the repairs which would have entitled them to be continued in or restored to the First Description, or having been continued or restored, and the additional period thus assigned having expired, shall appear on survey to be still in a condition for the safe conveyance of dry and perishable cargoes, and they will be designated by the diphthong character, Æ. (See also Section 87.) Such ships, however, of this class as shall be found on survey to be of superior description, being fit for the safe conveyance of dry and perishable goods to and from all parts of the world, shall be distinguished by inserting their characters in Red with an asterisk thus prefixed, \*Æ.—But in all cases in which an Owner may claim this distinction, the ship, to entitle her to it, must undergo a special survey by two surveyors, to be appointed in every instance by the Committee, and be subject to a compliance in other respects with

the requisitions prescribed by the rule, section 54.—Those ships, however, the original construction of which may not have entitled them to be classed in the First Class A for a longer period than Five Years, will not be allowed the distinction of the asterisk.

61. For the purpose of continuing a ship on the List of Ships of the Second Description of the First Class, a careful survey will be required to be made annually, or on the return of the ship from every foreign voyage, by one of the Surveyors to this Society, who is to state distinctly and separately the actual condition of the upper deck fastenings, water-ways, spirketting, planksheers, topsides, upper deck with its appendages, lower deck fastenings, wales, counter, plank, and treenails outside to the water's edge, rudder, windlass, and capstan, beams, breasthooks, transoms, and timbers; but if not surveyed within twelve months after entering the Second Description of the First Class, such ship having been during that time in some port in the United Kingdom, the character will be omitted until such survey be held; or, as the case may be, she will be allowed to pass into the class E. Whenever it shall appear to the Surveyors that a vessel classed Æ with the asterisk shall no longer be in a condition to deserve that distinction, notice of the proposal to reduce her shall be given in writing to the Owner, Master, or Agent, in the same manner as is prescribed by the rules, section 21, page 7.

#### BRITISH NORTH-AMERICAN BUILT SHIPS, AND FIR SHIPS.

62. Ships built in the British North-American Colonies, and all ships, wherever built, the frames of which are composed of Fir, of 300 tons and above, shall, in order to entitle them to be classed in the Register Book of the Society, be secured in their bilges by the application of iron riders to cover the joints of the floor and foothook heads, to extend from the height of the hold beams to the floors so as to receive not less than two bolts in a substantial part of the floors: the number of iron riders to be not less than one on every fourth floor on each side from two feet abaft the mainmast to two feet abaft the foremast, the size thereof to be not less than 31 inches by 13 inches at the joints of the timbers for ships of from 300 to 400 tons, and to be increased one quarter of an inch each way, for every one hundred tons of increased size. That all such ships shall also be secured by iron hanging knees to the hold beams, one knee to every alternate hold beam, provided the distance of the said beams from each other does not exceed 4 feet 6 inches, and the tonnage be less than 400 tons; but if the distance exceeds 4 feet 6 inches, or the ship is 400 tons and above, then one to every hold beam. The knees to be connected with the riders or not, at the option or convenience of the owners; but if not so connected, the side arms are to

be long enough to receive at least four bolts; the whole to be securely bolted with bolts of sufficient size. In cases of refusal, the words "not fastened as per rule, section 62," will be inserted against the vessels' names.

63. All British North-American built ships, which have gone, or may go off the List of Ships of the First Description of the First Class, or which may be of an age exceeding the period for which they might have had claims to be put upon that class (whether classed or not), shall, as from time to time they come under examination, be subjected to a careful survey, to be made by one of the Surveyors to this Society; - and no further character shall be assigned them unless a survey shall be held as follows; and planking, either inside or outside, at the discretion of the Surveyors, in quantity equal to one entire strake fore and aft on both sides, shall be removed; to be taken out in midships immediately above the turn of the Bilge, and at such height forward and aft as may, in their judgment, best expose the timbers of the frame to view: that a special report of the state of these timbers, and of the general state and condition of the upper deck fastenings, waterways, spirketting, planksheers, topsides, upper deck with its appendages, lower deck fastenings, wales, counter, plank and treenails outside to the water's edge, rudder, windlass, and capstan, beams and breasthooks, shall be transmitted by the Surveyors to the Committee; and on the receipt of such report the classing shall take place. If the diphthong character be then assigned, it shall be continued (subject to an annual survey) for a period not exceeding the number of years originally assigned for the ship's remaining in the First Description of the First Class; at the expiration of which the character will be discontinued, unless a similar survey and examination of the frame be again submitted to.

#### SECOND CLASS SHIPS,

- 64. Will comprise all ships which shall be found on survey unfit for carrying dry cargoes, but perfectly fit for the conveyance, on any voyage, of cargoes not in their nature subject to sea-damage; and they will be designated by the letter E.
- 65. Subject to occasional inspection, at least once in every two years, ships will continue in this class so long as their condition shall, in the opinion of the Committee, entitle them thereto.

#### THIRD CLASS SHIPS,

66. Will comprise ships which shall be found on survey fit for the conveyance, on short voyages (not out of Europe), of cargoes in their nature not subject to sea-damage; and they will be designated by the letter I.

67. The bottom of every ship is to be caulked once in every five years, unless wood-sheathed and felted, and then once in every seven years, except in the case of *Teak-built ships*, upon which a special survey may have been requested, and the Surveyors having ascertained, by the removal of a strake of sheathing fore and aft under the wales, and a strake at the first foothook heads, and by causing listings to be cut out at the wood's ends, that such caulking is not required, the same may then be dispensed with. If any ship shall be stripped within the periods above mentioned, her bottom is to be caulked, if necessary.

68. In all cases in which ships may be doubled, doubling of not less than the thicknesses hereinafter mentioned will be required, the same to be properly wrought and fastened as follows: in every instance the doubling is to be at least single fastened either with treenails or with bolts, and a through bolt in every butt. If treenails be used, every treenail must, if practicable, be a through fastening; and if bolts be used, then one sixth of them from the lower part of the bilge upwards must be through and clenched on the

ceiling in addition to the butt bolts.

The throat bolts of iron knees, and the bolts of iron hooks, crutches, and pointers, must be renewed through the doubling.

The thickness of the doubling for the wales and bottom, on ships
Under 400 tons to be not less than ... 2 inches

of 400 ,, and under 600 tons ...  $2\frac{1}{2}$  ,, of 600 ,, and above ... 3 ,,

On the topsides of ships not exceeding 300 tons, the thickness may be 11 inches.

No ship hereafter doubled, shall be entitled to the asterisk or any higher class, unless it shall be ascertained at the time of doubling that the frame is capable of securely retaining the fastenings.

Iron-fastened Ships.

69. All ships although iron-fastened (except as hereinafter mentioned) shall be classed in the same manner as copper-fastened ships, so long as they remain unsheathed with copper, provided they are, in all other respects, constructed in accordance with the Rules; but when sheathed with copper over the iron fastenings, the words "Coppered over Iron Bolts" shall be added to the character in the Register Book, and continued until the ship be thoroughly

copper-fastened.

70. Ships built in India, although fastened with iron, shall be permitted to be copper-sheathed without any mark being placed in the Book, provided the bottom be felted or chunamed, and wood-sheathed, and subject to a careful examination of the iron fastenings on every occasion on which the sheathing is stripped off, for which purpose some of the bolts and nails are to be taken out of the lower part of the bottom, and to be seen by the Surveyor; but no such ship shall be permitted to continue either on the A or on the Æ class for a longer period than one-half the number of years beyond the term originally assigned for her remaining on the First Description of the First Class, unless the bottom shall have been doubled, or the whole of the iron fastenings taken out or properly secured, and the bottom refastened with bolts, or treenails, or both, including the middle line and breasthook and crutch bolts.

#### SHIPS' ANCHORS, CABLES, AND STORES.

71. All vessels are required to have their masts, spars, and standing rigging in good order, and sails in sufficient number and good condition, and every ship is to be supplied with a good hempen stream-cable or tow-line of sufficient size and length, and with at least one good warp; and all vessels are to be provided with anchors of proper weight, and cables of approved quality in number and length according to the undermentioned scale:—

#### Anchors.

72. All vessels under 200 tons to have at least two bower anchors, and all vessels of 200 tons and above, to be provided with at least three bower anchors.

#### Cables.

73.	All vess	sels	under		have at			
		150 and						
	_	250		350		 200	do.	
	-	350		500		 240	do.	
	-	500		700		 270	do.	
		700 and	noward	le		 300	do.	

N.B. The Surveyors shall require with all new chains supplied to ships, the production of a certificate of their having been duly tested, and of the strain applied to them: and that each length (generally consisting of about fifteen fathoms), should be marked with the amount of strain applied to them.

74. In all cases where hempen cables are used, one-sixth more in length will be required.

#### Boats.

- 75. All vessels under 150 tons to be provided with one good boat; and every vessel of 150 tons and above to be provided with at least two good boats.
- 76. The efficient state and condition of ships' anchors, cables, and stores, will be designated by the figure 1; and where the same are found insufficient in quantity, or defective in quality, by the figure 2.

#### SHIPS NAVIGATED BY STEAM.

- 77. All sea-going vessels navigated by Steam shall be required to be surveyed twice in each year, when a character will be assigned to them, according to the report of survey as regards the classification of the hull and materials of the vessel.
- 78. That with respect to the boilers and machinery, the owners are required to produce to the Surveyors to this Society at the above-directed surveys, a certificate from some competent *Master Engineer*, describing their state and condition at those periods; and to which certificate it is desirable there should be added a description of the particulars of the same, as far as may be practicable, in the manner and form annexed, No. 7; to be appended to the

report of survey, and delivered to the Committee, who will thereupon insert in the Register Book the letters "M.C." denoting that the boilers and machinery have been inspected and certified to be in good order and safe working condition; but if no certificate of their condition be furnished by the Owner or Master, then no character can be assigned for the machinery.

79. Hull:—The Surveyors to this Society are directed to examine and report the scantling of timbers, plank, and fastenings, and to state where built, and by whom, in the same manner as directed for sailing vessels.

The following relaxation from the Rules applicable to sailing vessels will be allowed in favour of steamers.

Fir (to be either Pitch Pine, Baltic Red Fir, or American Red Pine), Larch, Hackmatack, or Juniper, may be used for upper deck beams, to an extent not exceeding *one-half* the number of beams required according to the vessel's tonnage.

The same materials may be used in the outside planking from the first foothook heads upwards, excepting for the wales, sheerstrakes, and planksheers.

The same materials may be likewise used in the inside planking, excepting for the bilge planks, shelf-pieces and stringers, and clamps.

Steam-vessels built in all other respects in conformity with the annexed tables shall be classed for the terms of years therein respectively prescribed, subject to the following conditions:—

That the Rule requiring a survey 'twice a year' be rigidly enforced, and that whenever the boilers are taken out, the vessel shall be subjected to a particular and special survey, in order to ascertain her general condition, and particularly the state of the Fir, or other materials herein allowed to be used.

That unless such surveys be held, the characters which may have been assigned to steam-vessels shall be struck out annually on reprinting the Register Book.

- 80. Scantlings:—The scantlings for a steam-vessel under 300 tons register including the engine room, are to be deemed sufficient, if equal to those required by the scale prescribed in the Rules of this Society for a sailing vessel of two-thirds of the total tonnage of such steam-vessel.
- 81. But for a steam-vessel above 300 tons register, including the engine room, the scantlings are to be equal to those required by the scale for a sailing vessel of three-fourths of the total tonnage of such steam-vessel.
- 82. Floors:—Where the vessel is not filled in solid to the floor-heads in the engine room, an exception will be specially made against any reduction of the scantling of the floors, which in such cases will not be permitted to be

upon the reduced scale of two-thirds or three-fourths of the dimensions for the scantling of sailing vessels, as before stated; but the floors will then be required to be equal to the dimensions set forth in the Rules for ships of the tonnage of the steam-vessel, including the engine room.

Vessels fitted with auxiliary steam power are considered to be sailing vessels (not steamers) and will not be allowed any exception as to their scantlings.

- 83. The Surveyors are required to report the number, size, length, fastenings, and mode of arrangement of the engine and boiler sleepers, and the description of timber of which they are composed, and whether diagonally trussed with wood or iron, and to what extent; the length, size, and fastenings of shelf-pieces and paddle beams; and whether the vessel be constructed with sponcings, and how they are formed; and to give the length and shifting of the plank outside and inside.
- 84. Materials and Stores:—The Surveyors are to examine and report the number and description of the masts, sails, anchors, cables, hawsers, warps, and boats, as directed to be done for sailing vessels; but the anchors and cables will not be required to exceed in weight and length those of a sailing vessel of two-thirds of the total tonnage of the steam-vessel.
- 85. The Surveyors are to be particular in examining and reporting the condition of the boats of all vessels employed in carrying passengers.
- 86. In all cases in which the application of the rules must necessarily be regulated by the ship's admeasurement, the *least* tonnage (whether the result of the old or new method) is to be adopted.
- 87. At the termination of the several periods assigned to ships for remaining on the First Description of the First Class, they will be reduced to the Second Description designated by the diphthong Æ; but if during the last year of the period assigned to them as ships A 1, the Owners of a ship shall, in consequence of her being about to proceed on a distant foreign voyage, apply to have her surveyed for continuation on the letter A, or for the Asterisk, a special survey shall be held conformably to the Rules, sections 54 or 60, as the case may be: and if from the report of such special survey, the ship shall appear to be in all respects in a sound and efficient state, such as is required by those Rules, the Committee shall, from the period at which the ship's character would terminate, continue such ship on the letter A, or assign to her the character \*Æ in accordance with the Rules referred to.

The Committee's attention having been urgently called to the necessity of providing for the classification of vessels built of Iron, they passed a Resolution to the following effect on the 4th January, 1844:—

"That the character of A I will in future be granted to such ships as shall be constructed of Iron under the survey of the Surveyors to this Society, and be reported, on their completion, to have been built of good and substantial materials, and with good workmanship.

"That Iron ships, already built, upon being subject to a careful and minute survey, and being reported to be in a high state of repair and efficiency, will also be classed as above; but if not so reported, they will be allowed such other character as, on a due consideration of their respective claims, they may be found to deserve.

"That in every instance in which a character may be assigned to ships built of Iron, it must be understood that such ships must be subjected to a careful Annual Survey, and that the continuance or otherwise of the character assigned will depend entirely upon the result of this survey.—And that vessels not surveyed annually will lose their character."

In the Appendix will be found copies of the Resolutions passed on the 24th August, 1848, and 18th January, 1849, the former regulating the use of Elm, as now restricted, in the outside planking of ships, and the latter, the more extended use of the following descriptions of materials for floors and first futtocks, subject to the limitations therein contained, viz.

Black Birch
Larch
Hackmatack
Tamarac
Juniper
Witch Hazel
American Rock Elm
Cowdie
Black Birch ... For FIRST FUTTOCKS.

The attention of Ship-owners and Ship-builders is respectfully invited to these amendments of the Rules.

By Order of the Committee, CHARLES GRAHAM,

Secretary.

No. 2, White Lion Court, Cornhill, London, 1st July, 1849.

18. Set of the Number of Indusymen in the Units for Ships of 50 Tons 150 Tons, 500 Tons, 8 1300 Tons, on their respective permenticulars ... then a tine drawn through these points will shere on the intermediate perpendiculars the proportionate dimensions of the corresponding Imbers, Prants, So. Lounnage.

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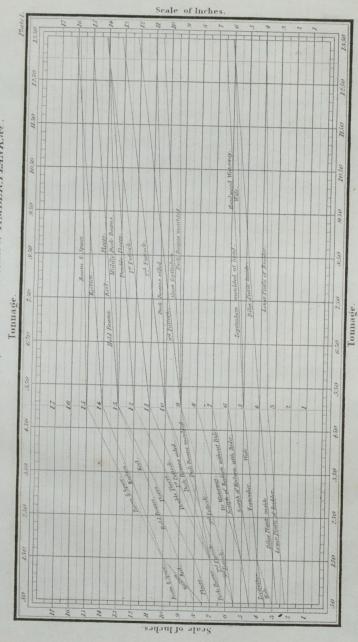
Black Birch
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Tamarac
Juniper
Witch Hazel
American Rock Elm
Cowdie
Black Birch ... For First Furrocus.

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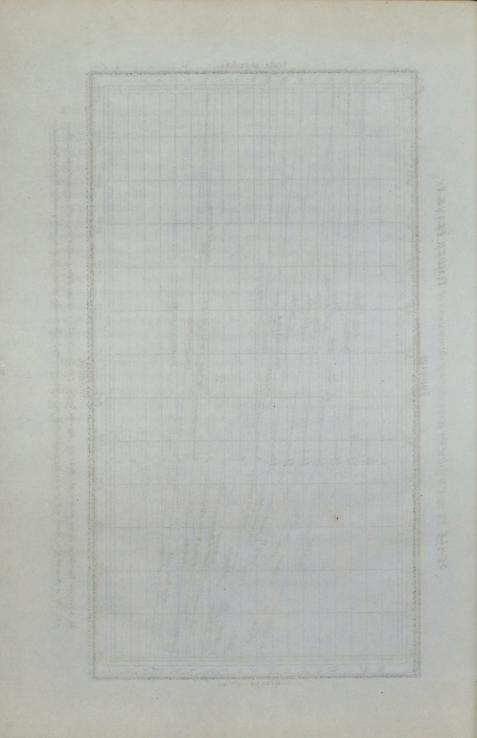
By Order of the Committee,

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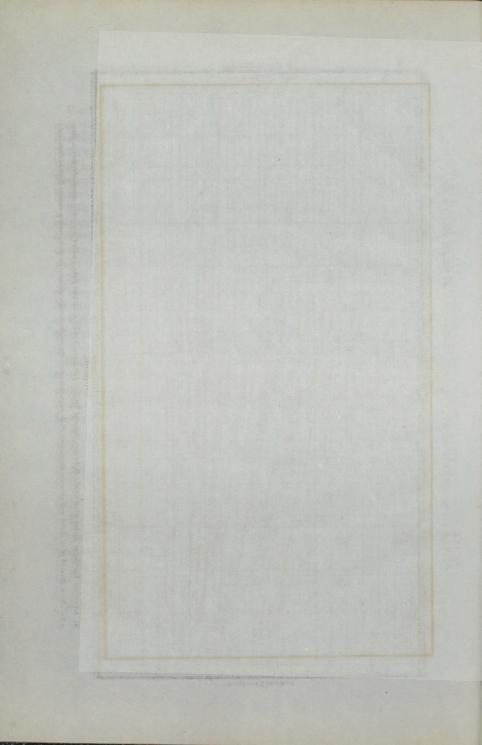
No. 2, White Lion Court, Corniell, Landon, 1st July, 1849.

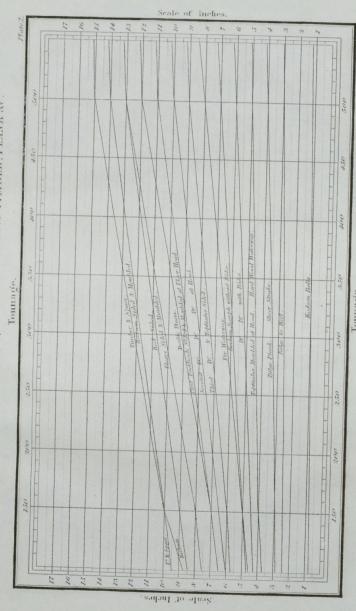


X8. See of the Sumber of Indusymen in the Italis for Ships of 50 Tans 40 Tans, 500 Tans, 8 1900 Tans, on their aspective perpendiculars — then d the drain through these points will show on the intermediate perpendiculars the proportionale dimensions of the cornsponding Timbers, Pearls, Se.



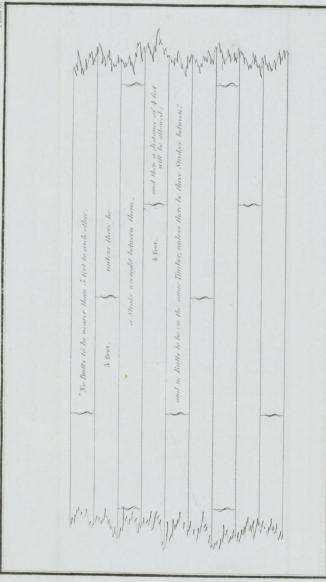
88, Secont the Standar of Indies given in the Hilles (in Stips of 150 Tows, and of 500 Tows, on their respective perpendiculars — thorsa time drawn though those two points, will shee, on the intermediate perpendiculus, the poper dimensions of the corresponding Toolees, Planks, &c.





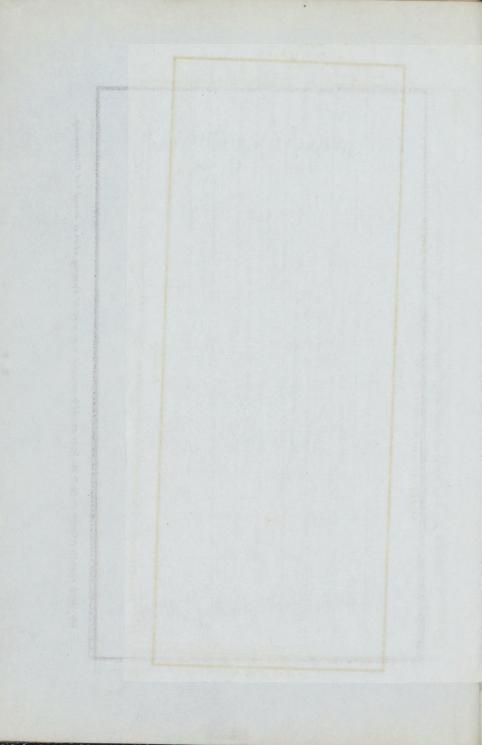
St. Set off the Number of Inches, given in the Rules, (or Steps of 150 Tous, and of 500 Tous, on their respective perpendiculars — then, a time drawn though those two points, will shew, on the intermediate perfeculiations, the paper dimensions of the corresponding Tanbors Plants, &c. Fonnage.

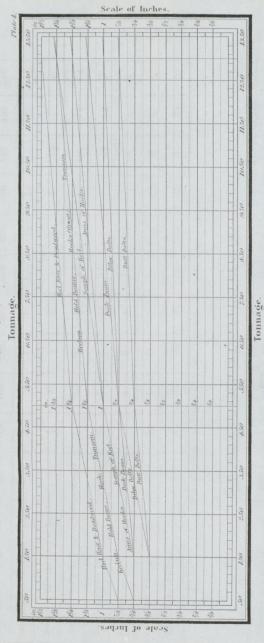
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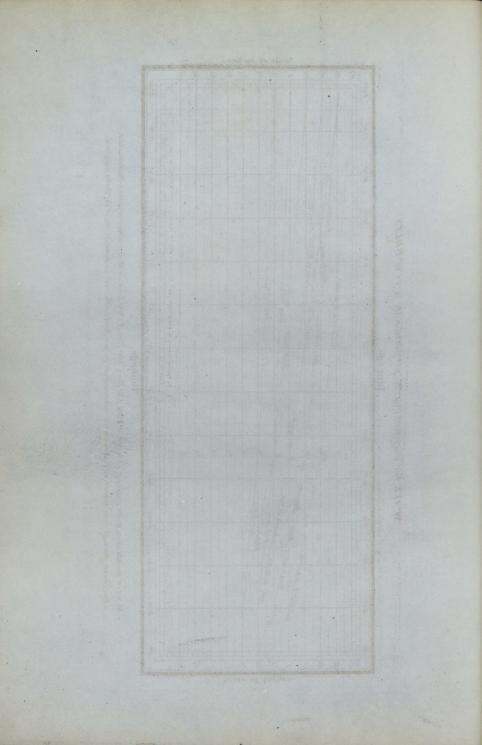
The Stocks shows the principle on which the Batts should be arranged, so as to avoid. Stepping, which is deemed bad Workmanship.

a line drawn through these pounts, met me





18. Set of the six given in the Rules for Strips of 50 Tons, 150 Tons, 500 Tons, on their respective perpendiculars... then a tine drawn through these points, will shew on the intermediate perpendiculars the correct dimensions of the Bolts required.



SIZES OF BOLTS.—Section 46, Page 14.

TONNAGE	50	100	150	200	250	300	350	400	450	500
Heel Knee and Deadwood · · · · · · · · · · · · · · · · · ·	7 8	15	1	1	110	11/8	118	1 3 1 6	14	11/4
Scarphs of Keel and Arms of Breasthooks	5 8	116	3 4	3 4	13	78	78	15	15	1
Kelson, Hold Beam, Transoms and Breasthooks	3 4	13	7 8	7 8	15	1	1	1,16	1 1 8	118
Bilge and Limber Strakes	9	5 8	5 8	116	116	3 4	3 -1	1 3 1 6	13	7 8
Butt Bolts	9 T6	5 8	5 8	5 8	11/16	11/16	11/16	3 4	3 4	3 4
Deck Beam Bolts	116	3 4	3 4	3 4	13	13	13	7 8	7 8	7 3
Lower Pintle of Rudder	21	23/8	21/2	25/8	23/4	$2_{\frac{15}{16}}$	31/8	31/4	338	31/2

Note. - The in and out Bolts of all Material Fastenings must be through and clenched.

### NUMBER OF HANGING KNEES.—Section 41, Page 11.

TONNAGE	200	250	300	350	400	450	500	550	600	650	700	750	800
No. of Knees to Hold Beams Pairs	_	-	_	-	8	-	9	-	10	_	11	_	12
Ditto to Upper Deck Beams · · Pairs	6	7	8	9	10	11	12	13	14	,15	16	17	18

No. 1 .- A TABLE exhibiting the different Descriptions of TIMBER, of good to the several Terms of Years appointed for Ships

Parts of the Frame of a Vessel.	CLASS Twelve Years.	CLASS Ten Years.	CLASS Nine Years.	CLASS Eight Years.
*FLOORS	English African Live East-India Teak Morung Saul Greenheart Morra.	The same as in the preceding Class, and admit Live Oak and Red Cedar alternately Adriatic Spanish Oak French South American, Hard or New South Wales Wood Mahogany.	The same as in the preceding Class, and admit Other Foreign White Oak Red Cedar Spanish Chesnut.	The same as in the preceding Class.
†1st FUTTOCKS	English African Coak Live East-India Teak Morung Greenheart Morra.	The same as in the preceding Class, and admit Live Oak and Red Cedar alternately Adriatic Spanish French Oak French South American Hard Wood Mahogany,	The same as in the preceding Class, and admit Other Foreign White Oak below the light water mark Red Cedar Spanish Chesnut.	The same as in the pre- ceding Class.
2d FUTTOCKS	English African Clave Control	The same as in the pre- ceding Class, and admit Live Oak and Red Cedar alternately Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish French Ooak French South American Hard Wood Red Cedar.	The same as in the pre- ceding Class.
and TOP TIMBERS	English African Oak Live East-India Teak Morung Saul Greenheart Morra. Mahogany, except for Roughtree Stantions.	The same as in the preceding Class, and admit Live Oak and Red Cedar alternately Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American, Hard or NewSouthWales, Wood Red Cedar.	The same as in the pre- ceding Class.
STEM	English African Oak Live East-India Teak Morung Saul.	The same as in the preceding Class, and admit Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish French South American Hard Wood Red Cedar,	The same as in the preceding Class.
TRANSOMS KNIGHTHEADS HAWSE TIMBERSAPRON	English African Oak Live East-India Teak Morung Saul.	The same as in the pre- ceding Class, and admit Mahogany.	The same as in the pre- ceding Class, and admit Adriatic Spanish French South American Hard Wood Red Cedar.	The same as in the pre- ceding Class.
MAIN KELSON	English African Oak Live East India Teak Morung Saul Greenheart Morra Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American, Hard or NewSouth Wales, \ Wood Red Cedar.	The same as in the pre- ceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the pre- ceding Class.
BEAMS HOOKS and KNEES	English African Oak Live East-India Teak Morung Saul Greenheart Morra Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American Hard Wood New South Wales ditto Red Cedar.	ceding Class.	The same as in the pre- ceding Class, and admi Other Foreign White Oak Spanish Chesnut.

<sup>\*</sup> Black Birch, Larch, Hackmatack, Tamarac, Juniper, Witch Hazel, American Rock Elm, and Cowdie allowed for FLooi † Black Birch allowed for First Futtocks amidships, to the same extent in Ships of the Six Years' Class. † So far as regards the Material to be used from the height of two feet above the rabbet of the keel.

Quality, to be used in the TIMBERING of SHIPS, as the same will be applicable to remain on the First Description of the First Class.

CLASS Seven Years.	CLASS Six Years.	CLASS Five Years.	CLASS Four Years.	Parts of the Frame of a Vessel.
The same as in the preceding Class, and admit English Ash Sound second-hand English or African Oak, or Teak.	The same as in the pre- ceding Class, and admit Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the preceding Class, and admit Baltic Fir Red Pine Black Birch Witch Hazel Elm or Ash Hard Wood of good quality English Beech.	The same as in the preceding Class, and admit White Spruce.	•FLOORS.
The same as in the preceding Class, and admit Other Foreign White Oak above the light water mark Sound second-hand English or African Oak, or Teak.	The same as in the preceding Class, and admit English Ast Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the preceding Class, and admit Baltic Fir Red Pine Black Birch Witch Hazel Elm or Ash Hard Wood of good quality.	The same as in the pre- ceding Class, and admit White Spruce. English Beech,	†1stFUTTOCKS.
The same as in the pre- ceding Class, and admit Other Foreign White Oak Spanish Chesnut,	The same as in the preceding Class, and admit Larch—Cowdie Hackmatack Tamarae—Juniper Sound second-hand English or African Oak, or Teak.	The same as in the preceding Class, and admit Baltic Fir Red Pine.	The same as in the pre- ceding Class, and admit Elm Ash Black Birch Witch Hazel White Spruce.	2d FUTTOCKS.
The same as in the pre- ceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the preceding Class, and admit Red Pine—Baltic Fir Larch—Hackmatack Tamarac—Juniper Pitch Pine—Cowdie Sound second-hand English or African Oak, or Teak.	The same as in the preceding Class.	The same as in the preceding Class, and admit Yellow Pine Elm Ash Black Birch Witch Hazel White Spruce.	3d FUTTOCKS. and TOP TIMBERS.
The same as in the pre- ceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the pre- ceding Class, and admit Larch Hackmatack Tamarae Juniper Cowdie.	The same as in the preceding Class.	The same as in the pre- ceding Class, and admit Black Birch Witch Hazel.	STEM, STERN POST.
The same as in the pre- ceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the preceding Class, and admit Larch—Cowdie Hackmatack Tamarac—Juniper Sound second-hand English or African Oak, or Teak.	The same as in the pre- ceding Class, and admit Baltic Fir Red Pine.	The same as in the pre- ceding Class, and admit Yellow Pine Elm Ash Black Birch Witch Hazel White Spruce.	TRANSOMS KNIGHTHEADS HAWSE TIM- BERS APRON ‡DEADWOOD,
The same as in the preceding Class, and admit Pitch Pine Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the pre- ceding Class, and admit Baltic Fir Red Pine American Rock Elm.	The same as in the preceding Class, and admit Ash.	The same as in the pre- ceding Class, and admit Yellow Pine Black Birch Witch Hazel White Spruce.	MAIN KELSON
The same as in the preceding Class, and admit Pitch Pine Larch Hackmatack Tamarae Juniper—Cowdie Knees of Fir, Pine, or Spruce.	The same as in the pre- ceding Class, and admit Baltic Fir Red Pine Sound second-hand English or African Oak, or Teak.	The same as in the preceding Class, and admit Elm Ash.	The same as in the pre- ceding Class, and admit Yellow Pine Black Birch Witch Hazel White Spruce,	BEAMS HOOKS and KNEES.

in Midships, to an extent not exceeding one half the entire length of the Keel, in Ships of the Seven Years' Class.

# No. 2.—A TABLE exhibiting the different Descriptions of TIMBER, of good applicable to the several Terms of Years appointed for

				Transcero
Parts of the Outside of a Vessel.	CLASS Twelve Years.	CLASS Ten Years.	CLASS Nine Years.	CLASS Eight Years.
to the  Ist FUTTOCK HEADS	English African Oak Live Cast-India Teak Red Cedar Foreign White Oak Elm Beech South American, or any Hard Wood Mahogany Spanish Chesnut	The same as in the preceding Class, and admit Pitch Pine Larch Hackmatack Tamarac Juniper Black Birch Cowdie.	The same as in the preceding Class, and admit Baltic Fir Red Pine.	The same as in the preceding Class.
lst FUTTOCK HEADS to LIGHT WATER MARK	English African Oak Live Cast-India Teak Red Cedar Foreign White Oak South American, Hard or New South Wales Wood Mahogany Spanish Chesnut	The same as in the preceding Class, and admit Pitch Pine.	The same as in the preceding Class, and admit Baltic Fir Red Pine Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the preceding Class, and admit *American Rock Elm.
to WALES	English African Oak Live East-India Teak Morung Saul Red Cedar Greenheart Morra Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American, Or New SouthWales Wood	The same as in the pre- ceding Class, and admit Foreign White Oak Pitch Pine Spanish Chesnut,	The same as in the pre- ceding Class, and admit Baltic Fir Red Pine Larch Hackmatack Tamarac Juniper Cowdie.
WALES and BLACKSTRAKES	English African Live East-India Teak Greenheart Morra Morung Saul.	The same as in the preceding Class, and admit Red Cedar Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American, Wood New South Wales Wood	The same as in the pre- ceding Class, and admit Other Foreign White Oak Pitch Pine Spanish Chesnut.
TOPSIDES	African Oak	The same as in the preceding Class, and admit Pitch Pine.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American, Hard or New South Wales Wood	The same as in the preceding Class, and admit Other Foreign White Oak Spanish Chesnut.
SHEERSTRAKES and PLANKSHEER	African Oak	Red Cedar Mahogany.	The same as in the preceding Class, and admit Adriatic Spanish Oak French South American, Hard or New South Wales Wood	The same as in the preceding Class, and admit Other Foreign White Oak Spanish Chesnut.
WATER WAYS.	African Oak Live Oak East-India Teak Red Cedar Greenheart Morra Morung Saul Mahogany.	The same as in the preceding Class, and admit South American, Hard or New South Wales Wood Baltic Fir Pitch Pine Red Pine Larch Hackmatack Tamarac Juniper—Cowdie.	The same as in the preceding Class.	The same as in the pre- ceding Class, and admit Foreign White Oak Spanish Chesnut.

<sup>\*</sup> The use of Elm to be restricted to a height from the lower part of the main Keel, of one third of the internal depth of the Ship measured from the top of the Limber Strake to the top of the Upper Deck Beams in midships.

# Quality, to be used in the OUTSIDE PLANKING of SHIPS, as the same will be Ships to remain on the First Description of the First Class.

CLASS Seven Years.	CLASS Six Years.	CLASS Five Years.	CLASS Four Years.	Parts of the Outside of a Vessel.
The same as in the preceding Class.	The same as in the pre- ceding Class.	The same as in the preceding Class, and admit Yellow Pine White Spruce,	The same as in the preceding Class.	KEEL to the lst FUTTOCK HEADS.
The same as in the preceding Class.	The same as in the preceding Class.	The same as in the preceding Class, and admit Yellow Pine Black Birch.	The same as in the preceding Class, and admit White Spruce.	lst FUTTOCK HEADS to LIGHT WATER MARK.
The same as in the pre- ceding Class.	The same as in the preceding Class, and admit *American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine.	The same as in the preceding Class, and admit White Spruce Black Birch.	LIGHT WATER MARK to WALES.
The same as in the pre- ceding Class, and admit saltic Fir ted Pine .arch lackmatack Pamarac (uniper Cowdie.	The same as in the preceding Class.	The same as in the preceding Class, and admit Yellow Pine *American Rock Elm.	The same as in the preceding Class, and admit White Spruce Black Birch.	WALES and BLACKSTRAKES
The same as in the pre- ceding Class, and admit slatic Fir ted Pine .arch lackmatack Pamarac uniper lowdie.	The same as in the preceding Class.	The same as in the preceding Class, and admit Yellow Pine *American Rock Elm.	The same as in the preceding Class, and admit White Spruce Black Birch.	TOPSIDES.
The same as in the pre- ceding Class, and admit arch Pitch Pine Hackmatack Famarac uniper Cowdie.	The same as in the pre- ceding Class, and admit Baltic Fir Red Pine.	The same as in the pre- ceding Class, and admit *American Rock Elm.	The same as in the preceding Class, and admit White Spruce Yellow Pine Black Birch.	SHEERSTRAKES and PLANKSHEER.
The same as in the pre- ceding Class, and admit fellow Pine for the up- per deck, provided it has no in and out through fastenings, and the beams are otherwise well secured.	The same as in the preceding Class.	The same as in the preceding Class, and admit Yellow Pine *American Rock Elm.	The same as in the preceding Class, and admit White Spruce Black Birch.	WATERWAYS.

# No. 3.—A TABLE exhibiting the different Descriptions of TIMBER, of good applicable to the several Terms of Years for

Parts of the Inside of a Vessel.	CLASS Twelve Years.	CLASS Ten Years.	CLASS Nine Years.	CLASS Eight Years.
LIMBER STRAKE	English African Adriatic Spanish French East-India Teak Morung Saul Red Cedar South American, or New South Wales Wood Mahogany.	The same as in the preceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the preceding Class.	The same as in the preceding Class, and admit Pitch Pine.
BILGE PLANKS	English African Adriatic Spanish French East-India Teak Morung Saul Red Cedar South American, Or New South Wales Wood Mahogany.	The same as in the pre- ceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the preceding Class.	The same as in the preceding Class, and admit Pitch Pine.
LOWER HOLD.	English African Adriatic Spanish French East-India Teak Morung Saul Red Cedar South American, or New South Wales Wood Mahogany.	The same as in the preceding Class, and admit Other Foreign White Oak Spanish Chesnut.	The same as in the preceding Class.	The same as in the preceding Class, and admit Pitch Pine Baltic Fir Red Pine Larch Hackmatack Tamarac Juniper Cowdie,
BETWEEN DECKS.	English African Adriatic Spanish Fench East-India Teak Morung Saul Red Cedar South American, New SouthWales Wood Mahogany.	The same as in the preceding Class, and admit Other Foreign White Oak Pitch Pine Spanish Chesnut.	The same as in the preceding Class.	The same as in the pre- ceding Class, and admit Baltic Fir Red Pine Larch Hackmatack Tamarac Juniper Cowdie.
SHELF PIECES	English African East-India Teak Morung Saul Red Cedar Greenheart Morra Mahogany.	The same as in the preceding Class, and admit Foreign White Oak Adriatic Spanish Oak French South American, Or New South Wales Wood Spanish Chesnut.	The same as in the preceding Class.	The same as in the preceding Class.
CLAMPS	English African Cak African Cak East-India Teak Morung Saul Red Cedar Greenheart Morra Mahogany.	The same as in the preceding Class, and admit Foreign White Oak Adriatic Spanish Coak French Ooth American, Hard Or New South Wales Spanish Chesnut.		The same as in the preceding Class, and admit Pitch Pine Larch Hackmatack Tamarac Juniper Cowdie.
	MEMFor relaxation in	favour of Steam Vessels, v	ide Rules, page 24.	

Quality, to be used in the Inside Planking of Shifs, as the same will be Ships to remain on the First Description of the First Class.

CLASS Seven Years.	CLASS Six Years.	CLASS Five Years.	CLASS Four Years.	Parts of the Inside of a Vessel.
The same as in the preceding Class, and admit Baltic Fir Red Pine Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the preceding Class, and admit American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine Black Birch.	The same as in the preceding Class, and admit White Spruce.	LIMBER STRAKE.
The same as in the preceding Class, and admit Baltic Fir Red Pine Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the preceding Class, and admit American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine Black Birch.	The same as in the preceding Class, and admit White Spruce.	BILGE PLANKS
The same as in the preceding Class.	The same as in the preceding Class, and admit American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine Black Birch.	The same as in the preceding Class, and admit White Spruce.	LOWER HOLD.
The same as in the preceding Class.	The same as in the preceding Class, and admit American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine Black Birch.	The same as in the preceding Class, and admit White Spruce.	BETWEEN DECKS.
The same as in the preceding Class, and admit Pitch Pine Larch Hackmatack Tamarac Juniper Cowdie.	The same as in the preceding Class, and admit Baltic Fir Red Pine American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine.	The same as in the preceding Class, and admit White Spruce Black Birch.	SHELF PIECES
The same as in the preceding Class, and admit Baltic Fir Red Pine.	The same as in the pre- ceding Class, and admit American Rock Elm.	The same as in the preceding Class, and admit Yellow Pine.	The same as in the preceding Class, and admit White Spruce Black Birch.	CLAMPS.

### No. 4.

#### FORM OF THE REPORT OF SURVEY.

No Survey held at Tonnage Built at						
Port belonging toDes						
Feet. Inches.			Inches.	a logilloch in	The state of the state of	Inches.
Length aloft   I	Extreme Bread	th		Depth of Hold.	and a Village	
SCANTLINGS OF TIM	IBER.		THICKN	ESS OF PLANK.		
Inch.	Inch. Inch. Midd. Ends	OUTSIDI	ε.	Inch.	IDE.	Inch
Room and Space Floorssided 1st Foothooks 2d Ditto 3d Ditto Top Timbers Deck Beams No. of Hold Beams No. of Keel Kelsons		Keel to Bilg Bilge Planks Bilge to Wal Wales Topsides Sheerstrakes Plankshears Waterways Upper Deck	es	Foot Wali Bilge Plan Ceiling in Ditto Bilg Hold Bean Deck Bean Ceiling 'tw Hold Bean Deck Bean	ks	p
COPPER OR IRON.  Heel-Knee and Deadwood abaft  Scarphs of Keel No  Floor Timber Bolts  Kelson ditto  Transoms and throats of Hooks  Arms of Hooks  TIMBERING.—The Space between	Bolts thro Limber Butt Enc	ough the Bilger Strakes	and	Hold Beam Deck Beam		100

TIMBERING.—The Space between the Floor Timbers and Lower Foothooks in this Vessel is ......Inches...The Space between the Top Timbers is......Inches. The Stem, Stern-Post are composed of ......., the Transoms, Aprons, Knightheads, Hawse Timbers, of .........and are.....free from all defects.

The Floors and First Foothooks are composed of ...... Timber.

The other Foothooks and Top Timbers of......

The Shifts of the first and second Foothooks are not less than .....

[N.B. When less than prescribed by the Rule, state how many.]

The rest of the Shifts of the Frames are .....

The Frame is ..... squared from the first Foothook Heads upwards, and ..... free from sap, and from thence downwards the Frame is .....

The alternate Frames are ......bolted together. [N.B. If not, state how bolted.]

The Butts of the Timbers are.....close together; their thickness not less than.....of the entire moulding at that place.

The frame is.....chocked with.....Butt at each end of the chock.

The Main Kelson is compas	ed ofand the False Kels	an of	
The Comba of the Valence	ed ofand the Faise Keis	SOII OI	
	are not less than feet	inches.	
The Deck and Hold Beams		** 1	
	ne Keel to the first Foothook	Heads, the	he Plank is composed
of*		The state of the s	
	Heads to the Light Water Mark,	of	···· a seal
	rk to the Wales, of		
The Wales and Blackstral	tes are of The Topside	es of	
The Shearstrakes and Plan	kshears of The Water	rways of	
The Decks of S	tate of		
The Shifts of the Planking	are not less than feet	inches. [	N.B If less than pre-
scribed by the Rule, state	whether general or partial, and is	f partial, in	n what part of the Ship.
The Planking is wrought		## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	www.backtonest
	er-strakes are composed of	the B	ilge Planks of
	of Between Decks, of		
Clamps of	Detricen Decks, or vi		
FASTENINGS.—To Hold Beams			Charmed Discount
Deck Beams	***************************************		
	Pointers Crutches .		
			and Dutt Endthand
	in the Bottom, and	. Doit in	each butt End through
and clenched.	Ser of Page 18 Comments	m	
	lted through and clenched	Tree	nails of
General Quality of Works		0 30 M	107_
We certify that the prece	eding is a correct description of the	e above-nar	med Vessel.
Builder's Signatu			
Her Masts, Yards, &c. are	in condition and sufficient	in size an	id length.
She has SAILS.	Cables, &c.		Anchors,
No.	Fathoms.	Inches. No	and their Weights.
Fore Sails,	Chain		Bower,
Fore Top Sails,	Hempen Stream Cable		Stream,
Fore Topmast Stay Sails,	Hawser		Kedge,
Main Sails,	Towlines		1 614
Main Top Sails,	Warp		Application of the second
	All of quality		A free chinasi
and.	19 A . S . O arres O . S . M Ar		8/
	m		
Sha has	ging sufficient in size	e and	in quality.
She has Long Boat a	nd The present state of	of the Wir	ndlass is
Capstan and Rudder	Tom. Bod and I		
General	P 1 St. 1 . 1 . 1	a mile	
General	Remarks.—Statement and Date of	f Repairs.	
If Sheathed, Doubled, Felted, o	r Coppered Wh	en last do	ne
am of opinion this Vessel sho	uld be classed		der meende
The Amount of the Fee		d by me,	
Special	£ : :		
Certificate (			
Committee's Minute	18		
Character assigned			
	and ordered the second		

<sup>\*</sup> To be varied as regards the use of Elm in conformity with the amended rule.

FORM OF REPORT OF ANNUAL SURVEY.						
No Survey held at Date 18 on the						
Master Tonnage Built at When built By whom						
built Owners Port belonging to Destined						
Voyage If Surveyed Afloat or in Dry Dock						
	Port of	Classed				
The present condition of	delicated and the same of a new	he Wales and disable tours a				
Decks Waterways Comings Upper Deck Beams and Fastenings Lower Deck Beams and Fastenings Planksheers Sheerstrakes Topsides Wales	Plank (Bottom) & Counter. Treenails. Breasthooks and Stemson Transoms, Pointers, and Crutches. Timbers of the Frame Kelsons. Clamps and Shelfs Ceiling Rudder	Copper Windlass and Capstan Pumps. Boats Masts, Yards, &c. Sails. Anchors, No. of. Cables. Hawsers and Warps Standing & Running Rigging				
General Observations and Op	inion.					
A Service County Secretary	a majoritant od inclusion					
Committee Minute						
an and mer ners in contain	was iningholish tal a	and the state of the state of				
	No. 6.					
		OVER A DECEMBER OF THE PARTY OF				
FORM OF C	ERTIFICATE OF CLAS	SIFICATION.				
Lloyd's Register of British and Foreign Shipping.						
Ayanous, as	ESTABLISHED 1834.					
OISTER						
No						
	London,	18				
Office, No. 2, White Lion Court, Cornhill.						
OFFICE, NO. 2, White Lion Court, Cornnit.						
and home or a second by the second of the se						
These are to Certify, That the of						
Surveyed by the Surveyors to this Society, and reported to be, on the						
A control of the cont						
her intended Voyage, and that she has been CLASSED in the REGISTER BOOK of this Society on the List of Ships of the						
Witness my Hand,						
Charge s.	attended to the same of the sa	Cli				

., Secretary.

## No. 7.

## FORM OF CERTIFICATE FOR VESSELS NAVIGATED BY STEAM.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

	essels navigated by Steam.  Day of ————, ——————————————————————————————
Steam Vessel belonging	whole of the Boilers and machinery of the
	Vitness ——
	Manufacturing Engineer.
	f the Particulars of the machinery of the above named:
ENGINES.  Number Diameter of Cylinder Length of Stroke No. per Minute. Estimated Power Diameter of Paddle-wheels Length of Paddles Breadth of Paddles No. of Paddles On what motion. No. of revolutions per minute Size of the holding-down bolts Condition of ditto Maker of the Engines Age of the Engines When they were last taken out Present condition of the Engines Can injection water be taken from the Bilge in the event of a serious Leak	Boilers.  Whether iron or copper  Working pressure  If it can be increased without going into the Boiler  What are the means of changing the water while the Boilers are at work  Maker of the Boilers  Age of the Boilers  When they were last taken out Present condition  Number of feed pumps  How attached  What clear space upon the top-side of the boiler from woodwork
FUEL.  Where stowed	No. of hand pumps  Can they be worked by the Engine  If any attached to engine, their purpose and size  No. of force-pumps  No. of branches and hose of sufficient length to reach to every part of the wassel

# NAMES of the SURVEYORS, and the PORTS to which they have been appointed.

The Surveyors at the following Ports are exclusively the Officers of the Society, and are not permitted to engage in any other business or employment whatsoever-

London	Augustin F. B. Creuze, F.R.S., Principal Shipwright Surveyor. Peter Courtenay. James Martin. Nathaniel Middleton. Joseph Horatio Ritchie.		
The second secon	Manufacture of the second second		
	. Thomas Alexander.		
Bristol, with Chepstow, and the River Wye	James Wood.		
Cork	Henry Adams.		
Glasgow, Greenock, and the Ports in the	John Barr Cumming.		
Clude	Richard Robertson.		
Hull, Gainsborough, Goole, Selby, Thorn, and Grimsby			
Leith, and Ports in the Frith of Forth, with Berwick-upon-Tweed	Walter Paton.		
	William Pope.		
Liverpool, Chester, and River Dee	George Winram. William Perkins.		
	William Perkins.		
Newcastle, with North and South Shields	5 Matthew Poppelwell.		
Tre were, were troin and bourn billetus	Robert Fowles.		
	John Brunton.		
Sunderland	Thomas Boyes Simey.		
	Thomas Lawrence.		
Whitehaven, Workington, Harrington, and	1		
Maryport, with Dumfries, Annan, and the Isle of Man	Tip coupe a min manual must		

The SURVEYORS at the following PORTS do not hold appointments as the exclusive Servants of the Society.

			*
Aberystwith and Aberdovey		•••	William Julian.
Banff			James M'Donald.
Barmouth and Portmadoc			John Jones.
Barnstaple and Bideford			James Bowen.
Beaumaris and Bangor		•••	John Parry.
Belfast			George M'Kibbin.
Blyth, with Hartley		•••	Richard Lough.
Cardigan, with New Quay,	Aberay		David James.
and Llandewey	***	)	
Cork, with Cove and Kinsale	•••	•••	George Wright.
Dartmouth, with Salcombe and	d Brixh	am	William Newman.
Duhlin, Kingstown, and Drogs	heda	***	Robert Morton.
Dundee and Montrose	•••	***	David Crighton.
Falmouth, with Fowey and Po	adstow		James Husband.
Galway			Henry Townsend.
Gloucester		•••	J. G. Francillon.
Guernsey			Peter Collas.
Ipswich and Harwich	•••	•••	W. R. Mulley.
Jersey	•••		William Ranwell.
Limerick	•••	•••	Malcolm Mactaggart.
Londonderry	•••	•••	James McGhee.
Lynn			William Garland.
Milford, with Pembroke	•••	•••	David Vaughan.
Newport, Monmouthshire, wit			Henry Haynes.
Newry, Carlingford, and Dun			Leonard Watson.
Penzance, St. Ives, and Helsto		•••	W. D. Mathews.
Plymouth	***		William Bennett Cuming.
Poole			John Oldis.
Portsmouth, with Littlehampto		•••	
Southampton, and Cowes	",}	•••	John Oakshott.
Ramsgate and Margate			Edward Hodges.
Scarborough, with Bridlington			William Wear.
Scilly Isles		•••	Hugh Tregarthen.
Shoreham, with Newhaven		•••	Thomas Guillaume.
Sligo	•••		William Pollexfen.
Stockton and Hartlepool			Ralph Hudson.
Swansea, with Neath and Lla		•••	John Gibson.
Teignmouth and Torquay	•••		Samuel Cockings.
Topsham and Exeter			John Holman.
Waterford			William D. Price.
Wexford			Mark Devereux.
Weymouth, with Bridport	•••	•••	Robert Gray.
TX77 '.77	•••		Thomas Jackson.
V 17		•••	George Garson.
I armouth	•••		George Garson,

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